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Forrest, Susan
Delatycki, Martin
Wilcox, Stephen
de Silva, Michelle
Elliott, Katherine
Lynch, Michael

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Ile Asp Leu Arg Arg Gln Leu Leu Ser Gly His Leu Thr Gln Asp Gln	
125 130 135	
gtg cgg gag gtt aag cgg cac atc acc gtg cgc ctg gac tgg ggt aat	485
Val Arg Glu Val Lys Arg His Ile Thr Val Arg Leu Asp Trp Gly Asn	
140 145 150	
gaa cat ttg ggc ctg gac ctg gtg cct cgg aag gac ttt gaa gta gtg	533
Glu His Leu Gly Leu Asp Leu Val Pro Arg Lys Asp Phe Glu Val Val	
155 160 165 170	
gac tcg gac cag att agt gtc tca gat ctc tat aag atg cat tta tct	581
Asp Ser Asp Gln Ile Ser Val Ser Asp Leu Tyr Lys Met His Leu Ser	
175 180 185	
agc cgg cag agt gta cag caa agc aca tcc cag gta gat aca atg cgc	629
Ser Arg Gln Ser Val Gln Gln Ser Thr Ser Gln Val Asp Thr Met Arg	
190 195 200	
cca cgt cat ggg gaa aca tgt cgg atg cca gtg cca cat cac ttc ttc	677
Pro Arg His Gly Glu Thr Cys Arg Met Pro Val Pro His His Phe Phe	
205 210 215	
ctc agc ctg aag agt ttc act tac aat act att ggg gaa gat acc gat	725
Leu Ser Leu Lys Ser Phe Thr Tyr Asn Thr Ile Gly Glu Asp Thr Asp	
220 225 230	

gtc ttc ttt tcc tta tat gac atg agg gaa ggc aag cag atc agt gag Val Phe Phe Ser Leu Tyr Asp Met Arg Glu Gly Lys Gln Ile Ser Glu 235 240 245 250	773
cgg ttt ctg gta aga ctg aac aag aat ggt ggg ccg agg aac cca gag Arg Phe Leu Val Arg Leu Asn Lys Asn Gly Gly Pro Arg Asn Pro Glu 255 260 265	821
aag ata gaa cga atg tgt gcc ctt ttt aca gat ctg agc agc aaa gat Lys Ile Glu Arg Met Cys Ala Leu Phe Thr Asp Leu Ser Ser Lys Asp 270 275 280	869
atg aag aga gat ttg tat atc gtt gcc cat gtg atc cga ata ggc cgg Met Lys Arg Asp Leu Tyr Ile Val Ala His Val Ile Arg Ile Gly Arg 285 290 295	917
atg ctc ctg aac gac tca aag aaa ggt cct cct cac ctg cac tac agg Met Leu Leu Asn Asp Ser Lys Lys Gly Pro Pro His Leu His Tyr Arg 300 305 310	965
cga cca tat ggc tgt gcg gtc cta agc atc ttg gat gtc cta cag tca Arg Pro Tyr Gly Cys Ala Val Leu Ser Ile Leu Asp Val Leu Gln Ser 315 320 325 330	1013
ctc aca gaa gta aag gaa gaa aag gat ttt gtt ctt aag gtt tac acg Leu Thr Glu Val Lys Glu Glu Lys Asp Phe Val Leu Lys Val Tyr Thr 335 340 345	1061
tgc aac aac gag agt gag tgg tcc cag atc cac gag aac atc atc cga Cys Asn Asn Glu Ser Glu Trp Ser Gln Ile His Glu Asn Ile Ile Arg 350 355 360	1109
aag tcc agt gcc aag tac tct gcc ccc agc gcc agc cat ggt ctt atc Lys Ser Ser Ala Lys Tyr Ser Ala Pro Ser Ala Ser His Gly Leu Ile 365 370 375	1157
att tct ctg cag ctt ctt cgt gga gac atg gaa cag att cgg aga gaa Ile Ser Leu Gln Leu Leu Arg Gly Asp Met Glu Gln Ile Arg Arg Glu 380 385 390	1205
aat ccc atg ata ttt aat agg gga ttg gca att aca aga aaa ttg gga Asn Pro Met Ile Phe Asn Arg Gly Leu Ala Ile Thr Arg Lys Leu Gly 395 400 405 410	1253
ttt cct gat gtc att atg cca ggt gat atc cgc aat gac ctg tac cta Phe Pro Asp Val Ile Met Pro Gly Asp Ile Arg Asn Asp Leu Tyr Leu 415 420 425	1301
acc ctg gag aag ggg gat ttc gag aga gga gga aag agt gta caa aag Thr Leu Glu Lys Gly Asp Phe Glu Arg Gly Gly Lys Ser Val Gln Lys 430 435 440	1349
aat att gaa gtg acc atg tat gtg ctt tat gca gat gga gaa atc ttg Asn Ile Glu Val Thr Met Tyr Val Leu Tyr Ala Asp Gly Glu Ile Leu 445 450 455	1397
aag gat tgc atc agc ttg ggt tca gga gag cca aat agg agt tcc tac Lys Asp Cys Ile Ser Leu Gly Ser Gly Glu Pro Asn Arg Ser Ser Tyr	1445

460	465	470	
cac tcc ttt gtc ctc tac cac agt aat agt cct cgc tgg gga gaa att His Ser Phe Val Leu Tyr His Ser Asn Ser Pro Arg Trp Gly Glu Ile 475 480 485 490			1493
atc aaa ttg cct atc ccc att gac cgg ttc cgg ggc tcc cac ctg cgc Ile Lys Leu Pro Ile Pro Ile Asp Arg Phe Arg Gly Ser His Leu Arg 495 500 505			1541
ttt gag ttc aga cat tgt tcc aca aag gac aaa ggg gaa aag aaa ctc Phe Glu Phe Arg His Cys Ser Thr Lys Asp Lys Gly Glu Lys Lys Leu 510 515 520			1589
ttt ggc ttt gca ttc tca acc ctg atg cgt gat gat ggc acc acc ctc Phe Gly Phe Ala Phe Ser Thr Leu Met Arg Asp Asp Gly Thr Thr Leu 525 530 535			1637
tca gat gat att cac gag ctt tat gtg tac aag tgt gat gag aat agc Ser Asp Asp Ile His Glu Leu Tyr Val Tyr Lys Cys Asp Glu Asn Ser 540 545 550			1685
acg ttt aat aac cat gct ctg tac ctg ggc ctg ccc tgc tgc aaa gag Thr Phe Asn Asn His Ala Leu Tyr Leu Gly Leu Pro Cys Cys Lys Glu 555 560 565 570			1733
gac tac aat ggc tgc cct aat att cct tct agc ctc atc ttc cag cgc Asp Tyr Asn Gly Cys Pro Asn Ile Pro Ser Ser Leu Ile Phe Gln Arg 575 580 585			1781
agc acc aaa gag tct ttc ttc atc tcc act cag ctc tcc tct acc aaa Ser Thr Lys Glu Ser Phe Phe Ile Ser Thr Gln Leu Ser Ser Thr Lys 590 595 600			1829
ctc acc cag aat gtg gac ctc cta gct ctg ctg aag tgg aaa gcc ttc Leu Thr Gln Asn Val Asp Leu Leu Ala Leu Leu Lys Trp Lys Ala Phe 605 610 615			1877
ccc gac cgg atc atg gat gta cta ggg cgg ctg cgg cat gtc agt ggg Pro Asp Arg Ile Met Asp Val Leu Gly Arg Leu Arg His Val Ser Gly 620 625 630			1925
gag gaa att gtt aag ttt ctg cag gac atc tta gat aca ctc ttt gtg Glu Glu Ile Val Lys Phe Leu Gln Asp Ile Leu Asp Thr Leu Phe Val 635 640 645 650			1973
att ttg gat gat aat aca gag aag tac ggc ctg ttg gtt ttt cag tct Ile Leu Asp Asp Asn Thr Glu Lys Tyr Gly Leu Leu Val Phe Gln Ser 655 660 665			2021
ctg gtg ttc atc atc aac ctg ctc cga gac atc aag tat ttt cac ttt Leu Val Phe Ile Ile Asn Leu Leu Arg Asp Ile Lys Tyr Phe His Phe 670 675 680			2069
cga cct gtg atg gac acg tat atc cag aag cac ttt gct gga gct ctg Arg Pro Val Met Asp Thr Tyr Ile Gln Lys His Phe Ala Gly Ala Leu 685 690 695			2117
gca tac aag gag ctc atc cgc tgt ttg aag tgg tat atg gac tgc tca			2165

Ala Tyr Lys Glu Leu Ile Arg Cys Leu Lys Trp Tyr Met Asp Cys Ser	
700 705 710	
gca gaa ctg att cga cag gac cac att caa gaa gct atg cgg gcc ttg	2213
Ala Glu Leu Ile Arg Gln Asp His Ile Gln Glu Ala Met Arg Ala Leu	
715 720 725 730	
gag tac ctt ttc aag ttc att gta cag tca cgg atc ctg tac tca cga	2261
Glu Tyr Leu Phe Lys Phe Ile Val Gln Ser Arg Ile Leu Tyr Ser Arg	
735 740 745	
gcc act tgt gga atg gaa gag gaa caa ttc aga tcc agt atc caa gaa	2309
Ala Thr Cys Gly Met Glu Glu Glu Gln Phe Arg Ser Ser Ile Gln Glu	
750 755 760	
ctt ttc cag tcc atc cgg ttt gtg ctc agt ctg gac agc cga aac tca	2357
Leu Phe Gln Ser Ile Arg Phe Val Leu Ser Leu Asp Ser Arg Asn Ser	
765 770 775	
gaa aca ctc ctt ttt act cag gct gca ctc ctc aat tct ttc cca acc	2405
Glu Thr Leu Leu Phe Thr Gln Ala Ala Leu Leu Asn Ser Phe Pro Thr	
780 785 790	
atc ttt gat gag ctt ctg caa atg ttc acc gtg caa gag gtg gca gag	2453
Ile Phe Asp Glu Leu Leu Gln Met Phe Thr Val Gln Glu Val Ala Glu	
795 800 805 810	
ttt gtg aga ggg aca ctg ggg agc atg ccc agc act gtg cac att ggg	2501
Phe Val Arg Gly Thr Leu Gly Ser Met Pro Ser Thr Val His Ile Gly	
815 820 825	
cag tca atg gac gtg gtc aag ctg cag tcc att gcc agg aca gtg gat	2549
Gln Ser Met Asp Val Val Lys Leu Gln Ser Ile Ala Arg Thr Val Asp	
830 835 840	
agc cgc ctg ttt tct ttc tca gaa tcc cgc cgc atc ctg ctt cct gtg	2597
Ser Arg Leu Phe Ser Phe Ser Glu Ser Arg Arg Ile Leu Leu Pro Val	
845 850 855	
gtt ctc cat cac att cac ctt cac ctg agg cag cag aaa gag ctg cta	2645
Val Leu His His Ile His Leu His Leu Arg Gln Gln Lys Glu Leu Leu	
860 865 870	
att tgc tca ggg att ctt ggc agc atc ttc tcc atc gtc aag acc agc	2693
Ile Cys Ser Gly Ile Leu Gly Ser Ile Phe Ser Ile Val Lys Thr Ser	
875 880 885 890	
tct ctg gag gca gat gtc atg gag gaa gta gag atg atg gtg gag agc	2741
Ser Leu Glu Ala Asp Val Met Glu Glu Val Glu Met Met Val Glu Ser	
895 900 905	
ctc ctg gac gtg ctc ttg cag act ctg ctc acc atc atg agc aaa tcg	2789
Leu Leu Asp Val Leu Leu Gln Thr Leu Leu Thr Ile Met Ser Lys Ser	
910 915 920	
cac gct cag gag gcg gta aga ggg cag cgg tgc ccg cag tgc aca gcc	2837
His Ala Gln Glu Ala Val Arg Gly Gln Arg Cys Pro Gln Cys Thr Ala	
925 930 935	

gag atc act ggc gag tat gtg tcc tgc ctt ctc tca ctg ctc cgc cag Glu Ile Thr Gly Glu Tyr Val Ser Cys Leu Leu Ser Leu Leu Arg Gln 940 945 950	2885
atg tgt gac acc cat ttc cag cac ctc ctg gac aac ttc cag agc aaa Met Cys Asp Thr His Phe Gln His Leu Leu Asp Asn Phe Gln Ser Lys 955 960 965 970	2933
gat gaa ctc aag gaa ttt ctg ctg aag att ttt tgc gtg ttc cgg aac Asp Glu Leu Lys Glu Phe Leu Leu Lys Ile Phe Cys Val Phe Arg Asn 975 980 985	2981
ctg atg aag atg agt gtc ttc cct cgg gac tgg atg gta atg aga ctg Leu Met Lys Met Ser Val Phe Pro Arg Asp Trp Met Val Met Arg Leu 990 995 1000	3029
ctc aca agc aat att ata gtc act act gtc cag tac ctg tcc tct Leu Thr Ser Asn Ile Ile Val Thr Thr Val Gln Tyr Leu Ser Ser 1005 1010 1015	3074
gca ctg cac aag aat ttc aca gag act gac ttt gac ttt aag gtg Ala Leu His Lys Asn Phe Thr Glu Thr Asp Phe Asp Phe Lys Val 1020 1025 1030	3119
tgg aat tct tac ttt agc ctg gca gtt cta ttc ata aat cag cca Trp Asn Ser Tyr Phe Ser Leu Ala Val Leu Phe Ile Asn Gln Pro 1035 1040 1045	3164
agc ctt cag cta gaa att atc acc tca gcc aaa agg aag aag att Ser Leu Gln Leu Glu Ile Ile Thr Ser Ala Lys Arg Lys Lys Ile 1050 1055 1060	3209
cta gat aag tat ggg gac atg cgt gta atg atg gcc tat gaa ctg Leu Asp Lys Tyr Gly Asp Met Arg Val Met Met Ala Tyr Glu Leu 1065 1070 1075	3254
ttc agc atg tgg cag aat ttg ggt gaa cat aag atc cac ttt att Phe Ser Met Trp Gln Asn Leu Gly Glu His Lys Ile His Phe Ile 1080 1085 1090	3299
ccg gga atg att ggt cct ttt ctg ggt gtg aca ctg gtc cca cag Pro Gly Met Ile Gly Pro Phe Leu Gly Val Thr Leu Val Pro Gln 1095 1100 1105	3344
cca gaa gta cgg aat atc atg att ccc atc ttt cat gac atg atg Pro Glu Val Arg Asn Ile Met Ile Pro Ile Phe His Asp Met Met 1110 1115 1120	3389
gac tgg gag cag aga aaa aat ggc aac ttc aaa cag gtg gag gcc Asp Trp Glu Gln Arg Lys Asn Gly Asn Phe Lys Gln Val Glu Ala 1125 1130 1135	3434
gag ttg att gac aag ctg gac agc atg gtg tca gaa ggg aaa ggt Glu Leu Ile Asp Lys Leu Asp Ser Met Val Ser Glu Gly Lys Gly 1140 1145 1150	3479
gac gag agc tac agg gag ctc ttc agc cta cta acc cag ctg ttt Asp Glu Ser Tyr Arg Glu Leu Phe Ser Leu Leu Thr Gln Leu Phe 1155 1160 1165	3524

ggg ccc tac ccc agc ctg ctg gag aag gtt gaa caa gaa aca tgg	3569
Gly Pro Tyr Pro Ser Leu Leu Glu Lys Val Glu Gln Glu Thr Trp	
1170 1175 1180	
cgc gag acc ggc att tcc ttt gtg acc tca gtc acc cgc ctc atg	3614
Arg Glu Thr Gly Ile Ser Phe Val Thr Ser Val Thr Arg Leu Met	
1185 1190 1195	
gaa cgt ctt ctt gac tac agg gac tgc atg aaa gga gag gaa aca	3659
Glu Arg Leu Leu Asp Tyr Arg Asp Cys Met Lys Gly Glu Glu Thr	
1200 1205 1210	
gag aat aag aag ata ggc tgc act gtt aac ctg atg aat ttt tac	3704
Glu Asn Lys Lys Ile Gly Cys Thr Val Asn Leu Met Asn Phe Tyr	
1215 1220 1225	
aaa tct gag att aac aag gaa gaa atg tat atc cgc tac atc cat	3749
Lys Ser Glu Ile Asn Lys Glu Glu Met Tyr Ile Arg Tyr Ile His	
1230 1235 1240	
aag ctt tgt gac atg cac ttg cag gcc gaa aac tac aca gag gcc	3794
Lys Leu Cys Asp Met His Leu Gln Ala Glu Asn Tyr Thr Glu Ala	
1245 1250 1255	
gca ttt acc ctg ctc ctt tac tgt gag ctg ctg cag tgg gag gac	3839
Ala Phe Thr Leu Leu Leu Tyr Cys Glu Leu Leu Gln Trp Glu Asp	
1260 1265 1270	
cgg cca cta cgg gaa ttc ctc cac tac cca tcg cag aca gag tgg	3884
Arg Pro Leu Arg Glu Phe Leu His Tyr Pro Ser Gln Thr Glu Trp	
1275 1280 1285	
cag cgg aag gag gga ctg tgc cgg aag atc att cac tac ttc aac	3929
Gln Arg Lys Glu Gly Leu Cys Arg Lys Ile Ile His Tyr Phe Asn	
1290 1295 1300	
aaa ggc aag agc tgg gag ttt ggg atc cca ctg tgc agg gag ctg	3974
Lys Gly Lys Ser Trp Glu Phe Gly Ile Pro Leu Cys Arg Glu Leu	
1305 1310 1315	
gcg tgt cag tac gag agc ctc tat gat tac cag agc ctc agc tgg	4019
Ala Cys Gln Tyr Glu Ser Leu Tyr Asp Tyr Gln Ser Leu Ser Trp	
1320 1325 1330	
att cgg aaa atg gag gcc agc tac tat gac aac att atg gag cag	4064
Ile Arg Lys Met Glu Ala Ser Tyr Tyr Asp Asn Ile Met Glu Gln	
1335 1340 1345	
caa cgc ctg gag cct gag ttc ttt cgg gtc ggc ttc tat ggc agg	4109
Gln Arg Leu Glu Pro Glu Phe Phe Arg Val Gly Phe Tyr Gly Arg	
1350 1355 1360	
aag ttt cct ttc ttt ctt cgg aac aaa gaa tac gtg tgc cgt ggc	4154
Lys Phe Pro Phe Phe Leu Arg Asn Lys Glu Tyr Val Cys Arg Gly	
1365 1370 1375	
cat gac tac gag agg ctg gag gcc ttc cag cag agg atg ctc agt	4199
His Asp Tyr Glu Arg Leu Glu Ala Phe Gln Gln Arg Met Leu Ser	

1380				1385				1390				
gag ttt ccg	cag gct gtc gcc	atg cag cac ccc aac	cat cct gat	4244								
Glu Phe Pro	Gln Ala Val Ala Met	Gln His Pro Asn His	Pro Asp									
1395	1400	1405										
gac gcc atc	cta cag tgc gat gcc	cag tac ttg cag atc	tat gca	4289								
Asp Ala Ile	Leu Gln Cys Asp Ala	Gln Tyr Leu Gln Ile	Tyr Ala									
1410	1415	1420										
gtg acg ccc	att cca gat tat gtg	gat gtt ctg cag atg	gat agg	4334								
Val Thr Pro	Ile Pro Asp Tyr Val	Asp Val Leu Gln Met	Asp Arg									
1425	1430	1435										
gta cca gat	cga gtc aag agc ttc	tat cgc gtc aac aat	gtg agg	4379								
Val Pro Asp	Arg Val Lys Ser Phe	Tyr Arg Val Asn Asn	Val Arg									
1440	1445	1450										
aag ttc cgg	tat gac agg cct ttt	cac aaa ggc ccc aag	gac aag	4424								
Lys Phe Arg	Tyr Asp Arg Pro Phe	His Lys Gly Pro Lys	Asp Lys									
1455	1460	1465										
gag aat gaa	ttc aag agc ctg tgg	att gaa cgt acc aca	ctg acc	4469								
Glu Asn Glu	Phe Lys Ser Leu Trp	Ile Glu Arg Thr Thr	Leu Thr									
1470	1475	1480										
ctg acc cac	agc ttg cct ggc atc	tct cgg tgg ttt gaa	gtg gag	4514								
Leu Thr His	Ser Leu Pro Gly Ile	Ser Arg Trp Phe Glu	Val Glu									
1485	1490	1495										
agg agg gaa	ctg gtg gag gtg agc	cct ctg gag aat gcc	atc caa	4559								
Arg Arg Glu	Leu Val Glu Val Ser	Pro Leu Glu Asn Ala	Ile Gln									
1500	1505	1510										
gtg gtt gag	aat aag aac cag gag	cta cgc tcc ctg atc	agc cag	4604								
Val Val Glu	Asn Lys Asn Gln Glu	Leu Arg Ser Leu Ile	Ser Gln									
1515	1520	1525										
tat caa cac	aag cag gtg cat ggc	aac att aac ctg cta	agc atg	4649								
Tyr Gln His	Lys Gln Val His Gly	Asn Ile Asn Leu Leu	Ser Met									
1530	1535	1540										
tgc ctg aat	ggt gtc att gat gca	gct gtc aat gga ggc	att gca	4694								
Cys Leu Asn	Gly Val Ile Asp Ala	Ala Val Asn Gly Gly	Ile Ala									
1545	1550	1555										
cgc tat cag	gag gcc ttc ttt gat	aaa gat tac atc aac	aag cac	4739								
Arg Tyr Gln	Glu Ala Phe Phe Asp	Lys Asp Tyr Ile Asn	Lys His									
1560	1565	1570										
cca gga gat	gct gag aag atc acc	cag ctc aag gag ctt	atg cag	4784								
Pro Gly Asp	Ala Glu Lys Ile Thr	Gln Leu Lys Glu Leu	Met Gln									
1575	1580	1585										
gag cag gtt	cat gtc ctt gga gtt	ggg cta gca gtt cat	gag aag	4829								
Glu Gln Val	His Val Leu Gly Val	Gly Leu Ala Val His	Glu Lys									
1590	1595	1600										
ttt gtg cac	cca gaa atg cgg cct	ctg cat aag aag cta	att gat	4874								

Phe	Val	His	Pro	Glu	Met	Arg	Pro	Leu	His	Lys	Lys	Leu	Ile	Asp	
		1605					1610					1615			
cag	ttc	cag	atg	atg	cgg	gcc	agt	ctc	tac	cat	gag	ttt	cca	ggt	4919
Gln	Phe	Gln	Met	Met	Arg	Ala	Ser	Leu	Tyr	His	Glu	Phe	Pro	Gly	
		1620					1625					1630			
ttg	gat	aag	cta	agt	cct	gca	tgt	tca	ggc	acc	agc	acc	cca	cgg	4964
Leu	Asp	Lys	Leu	Ser	Pro	Ala	Cys	Ser	Gly	Thr	Ser	Thr	Pro	Arg	
		1635					1640					1645			
gga	aat	gtt	ctg	gca	tcc	cat	agc	ccc	atg	agt	ccg	gag	agc	atc	5009
Gly	Asn	Val	Leu	Ala	Ser	His	Ser	Pro	Met	Ser	Pro	Glu	Ser	Ile	
		1650					1655					1660			
aag	atg	acc	cac	cgg	cac	agc	ccc	atg	aac	ttg	atg	ggc	aca	ggc	5054
Lys	Met	Thr	His	Arg	His	Ser	Pro	Met	Asn	Leu	Met	Gly	Thr	Gly	
		1665					1670					1675			
cgc	cat	tca	tca	tcc	tct	ctc	tcc	tca	cat	gcg	tct	agt	gaa	gca	5099
Arg	His	Ser	Ser	Ser	Ser	Leu	Ser	Ser	His	Ala	Ser	Ser	Glu	Ala	
		1680					1685					1690			
gga	aac	atg	gtg	atg	ctg	ggt	gac	ggc	tcc	atg	ggt	gat	gct	cct	5144
Gly	Asn	Met	Val	Met	Leu	Gly	Asp	Gly	Ser	Met	Gly	Asp	Ala	Pro	
		1695					1700					1705			
gag	gac	ctg	tac	cac	cac	atg	cag	ctc	gcg	tat	ccc	aac	ccc	agg	5189
Glu	Asp	Leu	Tyr	His	His	Met	Gln	Leu	Ala	Tyr	Pro	Asn	Pro	Arg	
		1710					1715					1720			
tac	caa	ggc	tca	gtc	acc	aac	gtc	tct	gtt	ctg	tcc	tcg	tcc	cag	5234
Tyr	Gln	Gly	Ser	Val	Thr	Asn	Val	Ser	Val	Leu	Ser	Ser	Ser	Gln	
		1725					1730					1735			
gca	agc	cct	tct	tcc	tcc	agc	ctg	agt	tcc	act	cac	tca	gca	cca	5279
Ala	Ser	Pro	Ser	Ser	Ser	Ser	Leu	Ser	Ser	Thr	His	Ser	Ala	Pro	
		1740					1745					1750			
tcc	cag	atg	att	acc	tct	gcc	cct	tcc	agt	gcc	cga	ggc	tct	ccc	5324
Ser	Gln	Met	Ile	Thr	Ser	Ala	Pro	Ser	Ser	Ala	Arg	Gly	Ser	Pro	
		1755					1760					1765			
tct	ctg	cca	gat	aag	tac	cgc	cat	gcc	cgt	gaa	atg	atg	ttg	ttg	5369
Ser	Leu	Pro	Asp	Lys	Tyr	Arg	His	Ala	Arg	Glu	Met	Met	Leu	Leu	
		1770					1775					1780			
ctg	ccc	aca	tac	cgg	gac	cgc	cca	agc	agt	gcc	atg	tat	cca	gca	5414
Leu	Pro	Thr	Tyr	Arg	Asp	Arg	Pro	Ser	Ser	Ala	Met	Tyr	Pro	Ala	
		1785					1790					1795			
gcc	atc	ctg	gag	aac	gga	cag	ccg	ccg	aat	ttc	cag	cga	gcc	ctg	5459
Ala	Ile	Leu	Glu	Asn	Gly	Gln	Pro	Pro	Asn	Phe	Gln	Arg	Ala	Leu	
		1800					1805					1810			
ttc	cag	caa	gtg	gtc	gga	gcc	tgc	aaa	ccc	tgc	agt	gat	ccc	aat	5504
Phe	Gln	Gln	Val	Val	Gly	Ala	Cys	Lys	Pro	Cys	Ser	Asp	Pro	Asn	
		1815					1820					1825			

ctg tct gtg gct gaa aaa ggt cat tac tcc cta cac ttt gac gcc	5549
Leu Ser Val Ala Glu Lys Gly His Tyr Ser Leu His Phe Asp Ala	
1830 1835 1840	
ttc cac cac cct ctg ggt gat acc ccc cca gcc ctc cct gcc cgg	5594
Phe His His Pro Leu Gly Asp Thr Pro Pro Ala Leu Pro Ala Arg	
1845 1850 1855	
acc ctg cgc aag tct cct ctc cac cct atc cca gcc tcc ccc aca	5639
Thr Leu Arg Lys Ser Pro Leu His Pro Ile Pro Ala Ser Pro Thr	
1860 1865 1870	
agc ccc cag tca ggt ctg gac ggc agc aac tct acg ctg tcc ggc	5684
Ser Pro Gln Ser Gly Leu Asp Gly Ser Asn Ser Thr Leu Ser Gly	
1875 1880 1885	
agt gcc agc agc ggc gtg tcc tcc ttg agt gag agt aac ttt ggg	5729
Ser Ala Ser Ser Gly Val Ser Ser Leu Ser Glu Ser Asn Phe Gly	
1890 1895 1900	
cac tcc tcg gag gcc cca cct cgc act gac acc atg gac tcc atg	5774
His Ser Ser Glu Ala Pro Pro Arg Thr Asp Thr Met Asp Ser Met	
1905 1910 1915	
cca agt cag gcc tgg aat gct gac gaa gat ctt gag cca ccc tac	5819
Pro Ser Gln Ala Trp Asn Ala Asp Glu Asp Leu Glu Pro Pro Tyr	
1920 1925 1930	
ctc cct gtc cac tac agc ctc tct gag tct gcc gtc ctg gac tcc	5864
Leu Pro Val His Tyr Ser Leu Ser Glu Ser Ala Val Leu Asp Ser	
1935 1940 1945	
atc aag gcc cag cca tgc cga agc cac tca gcc cca ggg tgc gtc	5909
Ile Lys Ala Gln Pro Cys Arg Ser His Ser Ala Pro Gly Cys Val	
1950 1955 1960	
atc cct cag gac ccc atg gac ccg cct gcg ctg ccg ccc aag ccc	5954
Ile Pro Gln Asp Pro Met Asp Pro Pro Ala Leu Pro Pro Lys Pro	
1965 1970 1975	
tac cac ccc cgc ctg ccg gcc ctg gag cac gat gag ggg gtg ctg	5999
Tyr His Pro Arg Leu Pro Ala Leu Glu His Asp Glu Gly Val Leu	
1980 1985 1990	
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Leu Arg Glu Glu Thr Glu Arg Pro Arg Gly Leu His Arg Lys Ala	
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Pro Leu Pro Pro Gly Ser Ala Lys Glu Glu Gln Ala Arg Met Ala	
2010 2015 2020	
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Trp Glu His Gly Arg Gly Glu Gln	
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Val Gln Ile Leu Glu Lys Cys Glu Gly Trp Tyr Arg Gly Val Ser Thr
 35 40 45

Lys Lys Pro Asn Val Lys Gly Ile Phe Pro Ala Asn Tyr Ile His Leu
 50 55 60

Lys Lys Ala Ile Val Ser Asn Arg Gly Gln Tyr Glu Thr Val Val Pro
 65 70 75 80

Leu Glu Asp Ser Ile Val Thr Glu Val Thr Ala Thr Leu Gln Glu Trp
 85 90 95

Ala Ser Leu Trp Lys Gln Leu Tyr Val Lys His Lys Val Asp Leu Phe
 100 105 110

Tyr Lys Leu Arg His Val Met Asn Glu Leu Ile Asp Leu Arg Arg Gln
 115 120 125

Leu Leu Ser Gly His Leu Thr Gln Asp Gln Val Arg Glu Val Lys Arg
 130 135 140

His Ile Thr Val Arg Leu Asp Trp Gly Asn Glu His Leu Gly Leu Asp

145		150		155		160
Leu Val Pro Arg	Lys Asp Phe Glu Val Val Asp Ser Asp Gln Ile Ser					
	165		170		175	
Val Ser Asp Leu Tyr Lys Met His Leu Ser Ser Arg Gln Ser Val Gln	180	185	190			
Gln Ser Thr Ser Gln Val Asp Thr Met Arg Pro Arg His Gly Glu Thr	195	200	205			
Cys Arg Met Pro Val Pro His His Phe Phe Leu Ser Leu Lys Ser Phe	210	215	220			
Thr Tyr Asn Thr Ile Gly Glu Asp Thr Asp Val Phe Phe Ser Leu Tyr	225	230	235			240
Asp Met Arg Glu Gly Lys Gln Ile Ser Glu Arg Phe Leu Val Arg Leu	245	250	255			
Asn Lys Asn Gly Gly Pro Arg Asn Pro Glu Lys Ile Glu Arg Met Cys	260	265	270			
Ala Leu Phe Thr Asp Leu Ser Ser Lys Asp Met Lys Arg Asp Leu Tyr	275	280	285			
Ile Val Ala His Val Ile Arg Ile Gly Arg Met Leu Leu Asn Asp Ser	290	295	300			
Lys Lys Gly Pro Pro His Leu His Tyr Arg Arg Pro Tyr Gly Cys Ala	305	310	315			320
Val Leu Ser Ile Leu Asp Val Leu Gln Ser Leu Thr Glu Val Lys Glu	325	330	335			
Glu Lys Asp Phe Val Leu Lys Val Tyr Thr Cys Asn Asn Glu Ser Glu	340	345	350			
Trp Ser Gln Ile His Glu Asn Ile Ile Arg Lys Ser Ser Ala Lys Tyr	355	360	365			
Ser Ala Pro Ser Ala Ser His Gly Leu Ile Ile Ser Leu Gln Leu Leu	370	375	380			

Arg Gly Asp Met Glu Gln Ile Arg Arg Glu Asn Pro Met Ile Phe Asn
385 390 395 400

Arg Gly Leu Ala Ile Thr Arg Lys Leu Gly Phe Pro Asp Val Ile Met
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Pro Gly Asp Ile Arg Asn Asp Leu Tyr Leu Thr Leu Glu Lys Gly Asp
420 425 430

Phe Glu Arg Gly Gly Lys Ser Val Gln Lys Asn Ile Glu Val Thr Met
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Tyr Val Leu Tyr Ala Asp Gly Glu Ile Leu Lys Asp Cys Ile Ser Leu
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Gly Ser Gly Glu Pro Asn Arg Ser Ser Tyr His Ser Phe Val Leu Tyr
465 470 475 480

His Ser Asn Ser Pro Arg Trp Gly Glu Ile Ile Lys Leu Pro Ile Pro
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Ile Asp Arg Phe Arg Gly Ser His Leu Arg Phe Glu Phe Arg His Cys
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Ser Thr Lys Asp Lys Gly Glu Lys Lys Leu Phe Gly Phe Ala Phe Ser
515 520 525

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530 535 540

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545 550 555 560

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Asn Ile Pro Ser Ser Leu Ile Phe Gln Arg Ser Thr Lys Glu Ser Phe
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Phe Ile Ser Thr Gln Leu Ser Ser Thr Lys Leu Thr Gln Asn Val Asp
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Leu Leu Ala Leu Leu Lys Trp Lys Ala Phe Pro Asp Arg Ile Met Asp
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Val Leu Gly Arg Leu Arg His Val Ser Gly Glu Glu Ile Val Lys Phe
625 630 635 640

Leu Gln Asp Ile Leu Asp Thr Leu Phe Val Ile Leu Asp Asp Asn Thr
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Glu Lys Tyr Gly Leu Leu Val Phe Gln Ser Leu Val Phe Ile Ile Asn
660 665 670

Leu Leu Arg Asp Ile Lys Tyr Phe His Phe Arg Pro Val Met Asp Thr
675 680 685

Tyr Ile Gln Lys His Phe Ala Gly Ala Leu Ala Tyr Lys Glu Leu Ile
690 695 700

Arg Cys Leu Lys Trp Tyr Met Asp Cys Ser Ala Glu Leu Ile Arg Gln
705 710 715 720

Asp His Ile Gln Glu Ala Met Arg Ala Leu Glu Tyr Leu Phe Lys Phe
725 730 735

Ile Val Gln Ser Arg Ile Leu Tyr Ser Arg Ala Thr Cys Gly Met Glu
740 745 750

Glu Glu Gln Phe Arg Ser Ser Ile Gln Glu Leu Phe Gln Ser Ile Arg
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Phe Val Leu Ser Leu Asp Ser Arg Asn Ser Glu Thr Leu Leu Phe Thr
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Gly Ser Met Pro Ser Thr Val His Ile Gly Gln Ser Met Asp Val Val
820 825 830

Lys Leu Gln Ser Ile Ala Arg Thr Val Asp Ser Arg Leu Phe Ser Phe
835 840 845

Ser Glu Ser Arg Arg Ile Leu Leu Pro Val Val Leu His His Ile His
850 855 860

Leu His Leu Arg Gln Gln Lys Glu Leu Leu Ile Cys Ser Gly Ile Leu
865 870 875 880

Gly Ser Ile Phe Ser Ile Val Lys Thr Ser Ser Leu Glu Ala Asp Val
885 890 895

Met Glu Glu Val Glu Met Met Val Glu Ser Leu Leu Asp Val Leu Leu
900 905 910

Gln Thr Leu Leu Thr Ile Met Ser Lys Ser His Ala Gln Glu Ala Val
915 920 925

Arg Gly Gln Arg Cys Pro Gln Cys Thr Ala Glu Ile Thr Gly Glu Tyr
930 935 940

Val Ser Cys Leu Leu Ser Leu Leu Arg Gln Met Cys Asp Thr His Phe
945 950 955 960

Gln His Leu Leu Asp Asn Phe Gln Ser Lys Asp Glu Leu Lys Glu Phe
965 970 975

Leu Leu Lys Ile Phe Cys Val Phe Arg Asn Leu Met Lys Met Ser Val
980 985 990

Phe Pro Arg Asp Trp Met Val Met Arg Leu Leu Thr Ser Asn Ile Ile
995 1000 1005

Val Thr Thr Val Gln Tyr Leu Ser Ser Ala Leu His Lys Asn Phe
1010 1015 1020

Thr Glu Thr Asp Phe Asp Phe Lys Val Trp Asn Ser Tyr Phe Ser
1025 1030 1035

Leu Ala Val Leu Phe Ile Asn Gln Pro Ser Leu Gln Leu Glu Ile
1040 1045 1050

Ile Thr Ser Ala Lys Arg Lys Lys Ile Leu Asp Lys Tyr Gly Asp
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Met Arg Val Met Met Ala Tyr Glu Leu Phe Ser Met Trp Gln Asn
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Leu Gly Glu His Lys Ile His Phe Ile Pro Gly Met Ile Gly Pro

1085					1090					1095				
Phe	Leu	Gly	Val	Thr	Leu	Val	Pro	Gln	Pro	Glu	Val	Arg	Asn	Ile
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Met	Ile	Pro	Ile	Phe	His	Asp	Met	Met	Asp	Trp	Glu	Gln	Arg	Lys
1115						1120					1125			
Asn	Gly	Asn	Phe	Lys	Gln	Val	Glu	Ala	Glu	Leu	Ile	Asp	Lys	Leu
1130						1135					1140			
Asp	Ser	Met	Val	Ser	Glu	Gly	Lys	Gly	Asp	Glu	Ser	Tyr	Arg	Glu
1145						1150					1155			
Leu	Phe	Ser	Leu	Leu	Thr	Gln	Leu	Phe	Gly	Pro	Tyr	Pro	Ser	Leu
1160						1165					1170			
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1175						1180					1185			
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1190						1195					1200			
Arg	Asp	Cys	Met	Lys	Gly	Glu	Glu	Thr	Glu	Asn	Lys	Lys	Ile	Gly
1205						1210					1215			
Cys	Thr	Val	Asn	Leu	Met	Asn	Phe	Tyr	Lys	Ser	Glu	Ile	Asn	Lys
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1250						1255					1260			
Tyr	Cys	Glu	Leu	Leu	Gln	Trp	Glu	Asp	Arg	Pro	Leu	Arg	Glu	Phe
1265						1270					1275			
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1295						1300					1305			

Phe Gly Ile Pro Leu Cys Arg Glu Leu Ala Cys Gln Tyr Glu Ser
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Phe Phe Arg Val Gly Phe Tyr Gly Arg Lys Phe Pro Phe Phe Leu
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Arg Asn Lys Glu Tyr Val Cys Arg Gly His Asp Tyr Glu Arg Leu
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Glu Ala Phe Gln Gln Arg Met Leu Ser Glu Phe Pro Gln Ala Val
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Tyr Val Asp Val Leu Gln Met Asp Arg Val Pro Asp Arg Val Lys
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Ser Phe Tyr Arg Val Asn Asn Val Arg Lys Phe Arg Tyr Asp Arg
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Pro Phe His Lys Gly Pro Lys Asp Lys Glu Asn Glu Phe Lys Ser
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Val Ser Pro Leu Glu Asn Ala Ile Gln Val Val Glu Asn Lys Asn
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Gln Glu Leu Arg Ser Leu Ile Ser Gln Tyr Gln His Lys Gln Val
1520 1525 1530

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Gly	Val	Gly	Leu	Ala	Val	His	Glu	Lys	Phe	Val	His	Pro	Glu	Met
1595						1600					1605			
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1925						1930					1935			
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1955						1960					1965			
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1970

1975

1980

Ala Leu Glu His Asp Glu Gly Val Leu Leu Arg Glu Glu Thr Glu
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Glu Gln
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 35 40 45

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 Val Tyr Asp Cys Val Lys Leu Thr Phe Ser Pro Ser Thr Leu Leu Val
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aat atc act gac caa gtt tat gaa tat aaa tac aaa aga gaa ata agt 457
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Ala Phe Leu Ala Ile Phe Val Ala Arg Ala Cys Asn Ile Tyr Pro Leu	
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Ser Phe Leu Leu Asn Leu Gly Arg Lys Gln Lys Ile Pro Trp Asn Phe	
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cag cac atg atg atg ttt tca ggt ttg cga gga gcg atc gca ttt gcc	1465
Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Ile Ala Phe Ala	
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Leu Ala Ile Arg Asn Thr Glu Ser Gln Pro Lys Gln Met Met Phe Thr	
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act acg ctg ctc ctc gtg ttc ttc act gtc tgg gta ttt gga gga gga	1561
Thr Thr Leu Leu Leu Val Phe Phe Thr Val Trp Val Phe Gly Gly Gly	
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aca acc ccc atg ttg act tgg ctt cag atc aga gtt ggc gtg gac ctg	1609
Thr Thr Pro Met Leu Thr Trp Leu Gln Ile Arg Val Gly Val Asp Leu	
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gat gaa aat ctg aag gag gac ccc tcc tca caa cac cag gaa gca aat	1657
Asp Glu Asn Leu Lys Glu Asp Pro Ser Ser Gln His Gln Glu Ala Asn	
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aac ttg gat aaa aac atg acg aaa gca gag agt gct cgg ctc ttc aga	1705
Asn Leu Asp Lys Asn Met Thr Lys Ala Glu Ser Ala Arg Leu Phe Arg	
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atg tgg tat agc ttt gac cac aag tat ctg aaa cca att tta acc cac	1753
Met Trp Tyr Ser Phe Asp His Lys Tyr Leu Lys Pro Ile Leu Thr His	
530 535 540	
tct ggt cct ccg ctg act aca aca tta cct gaa tgg tgt ggt ccg att	1801
Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Glu Trp Cys Gly Pro Ile	
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tcc agg ctg ctt acc agt cct caa gcc tat ggg gaa cag cta aaa gag	1849
Ser Arg Leu Leu Thr Ser Pro Gln Ala Tyr Gly Glu Gln Leu Lys Glu	
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 35 40 45

Leu His Glu Thr Gly Gly Ala Met Val Tyr Gly Leu Ile Met Gly Leu
 50 55 60

Ile Leu Arg Tyr Ala Thr Ala Pro Thr Asp Ile Glu Ser Gly Thr Val
 65 70 75 80

Tyr Asp Cys Val Lys Leu Thr Phe Ser Pro Ser Thr Leu Leu Val Asn
 85 90 95

Ile Thr Asp Gln Val Tyr Glu Tyr Lys Tyr Lys Arg Glu Ile Ser Gln
 100 105 110

His Asn Ile Asn Pro His Gln Gly Asn Ala Ile Leu Glu Lys Met Thr
 115 120 125

Phe Asp Pro Glu Ile Phe Phe Asn Val Leu Leu Pro Pro Ile Ile Phe
 130 135 140

His Ala Gly Tyr Ser Leu Lys Lys Arg His Phe Phe Gln Asn Leu Gly
 145 150 155 160

Ser Ile Leu Thr Tyr Ala Phe Leu Gly Thr Ala Ile Ser Cys Ile Val
 165 170 175

Ile Gly Leu Ile Met Tyr Gly Phe Val Lys Ala Met Ile His Ala Gly
180 185 190

Gln Leu Lys Asn Gly Asp Phe His Phe Thr Asp Cys Leu Phe Phe Gly
195 200 205

Ser Leu Met Ser Ala Thr Asp Pro Val Thr Val Leu Ala Ile Phe His
210 215 220

Glu Leu His Val Asp Pro Asp Leu Tyr Thr Leu Leu Phe Gly Glu Ser
225 230 235 240

Val Leu Asn Asp Ala Val Ala Ile Val Leu Thr Tyr Ser Ile Ser Ile
245 250 255

Tyr Ser Pro Lys Glu Asn Pro Asn Ala Phe Asp Ala Ala Ala Phe Phe
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Gln Ser Val Gly Asn Phe Leu Gly Ile Phe Ala Gly Ser Phe Ala Met
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Gly Ser Ala Tyr Ala Ile Ile Thr Ala Leu Leu Thr Lys Phe Thr Lys
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Leu Cys Glu Phe Pro Met Leu Glu Thr Gly Leu Phe Phe Leu Leu Ser
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Trp Ser Ala Phe Leu Ser Ala Glu Ala Ala Gly Leu Thr Gly Ile Val
325 330 335

Ala Val Leu Phe Cys Gly Val Thr Gln Ala His Tyr Thr Tyr Asn Asn
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Leu Ser Ser Asp Ser Lys Ile Arg Thr Lys Gln Leu Phe Glu Phe Met
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Asn Phe Leu Ala Glu Asn Val Ile Phe Cys Tyr Met Gly Leu Ala Leu
370 375 380

Phe Thr Phe Gln Asn His Ile Phe Asn Ala Leu Phe Ile Leu Gly Ala
385 390 395 400

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Phe Leu Leu Asn Leu Gly Arg Lys Gln Lys Ile Pro Trp Asn Phe Gln
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His Met Met Met Phe Ser Gly Leu Arg Gly Ala Ile Ala Phe Ala Leu
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Glu Asn Leu Lys Glu Asp Pro Ser Ser Gln His Gln Glu Ala Asn Asn
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Gln Lys Ala Ser Pro Gln Thr Pro Gly Lys Glu Asn Ile Tyr Glu Gly
610 615 620

Asp Leu Gly Leu Gly Gly Tyr Glu Leu Lys Leu Glu Gln Thr Leu Gly
625 630 635 640

Gln Ser Gln Leu Asn
645